# Regional Wind power Issues Workshop Boston, Massachusetts 25 October 2001

## Retail Market Barriers and Outlets for Wind Power

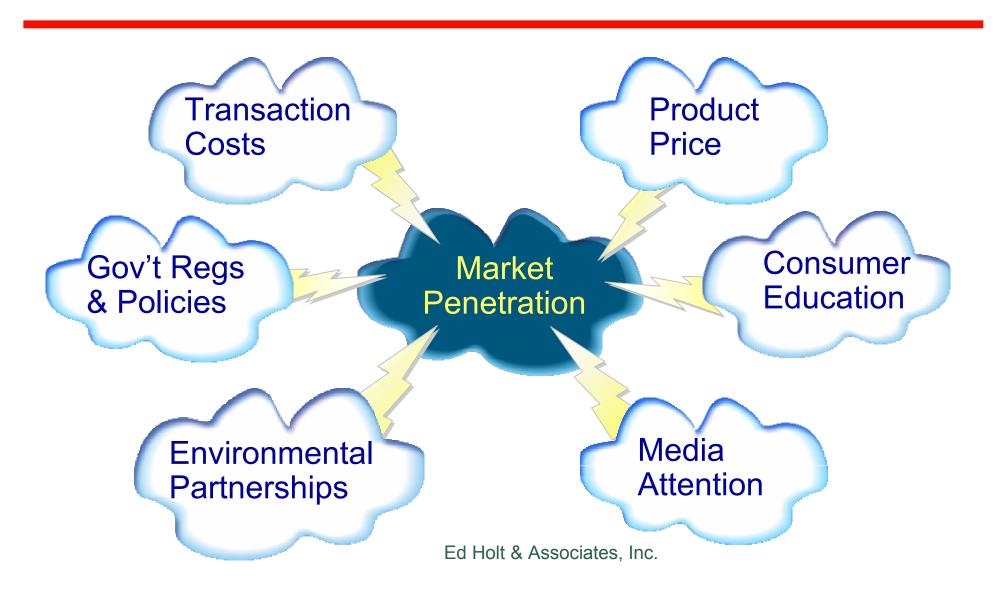


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#### **Barriers to Demand**

- Market fundamentals
  - especially default service price
- Customer acquisition cost
- Cost of green power
- Consumer fears--CA syndrome?
- Lack of consumer understanding of the environmental problem
- Lack of renewable energy policy incentives

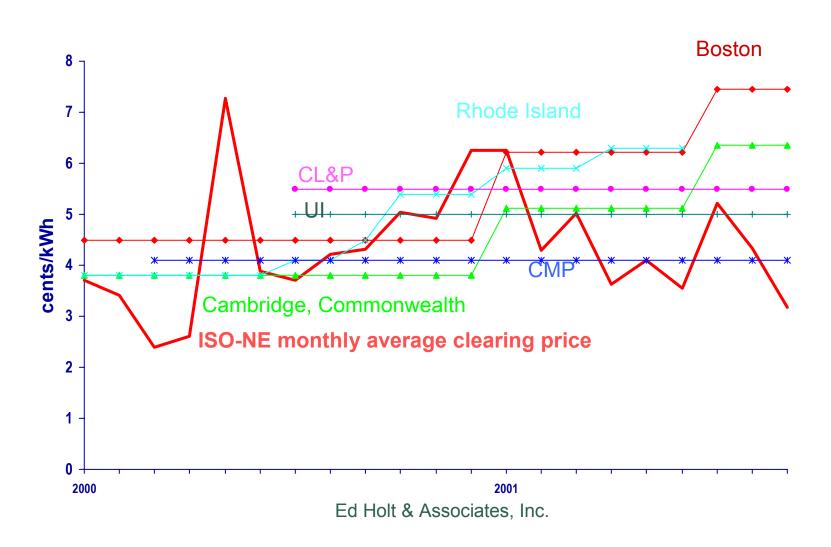
## Influencing Factors



#### **Standard Offers**

- Most standard offers have been too low relative to wholesale prices
  - Retailer marketers can't compete
- MA and RI standard offers are rising; most of Maine will increase March 2002
- Most standard offers will expire eventually-customers will face the market

## Market Prices & Standard Offers Compared



#### **Green Standard Offers?**

- IEPM and others have proposed a standard offer green option
- Caution: Don't kill the potential for a competitive market
  - Don't give consumers another reason not to choose a competitive supplier
- → Support green standard offer only if competitively bid (separate from brown standard offer) for a year or two at most
- If green std offer is high enough, then other green marketers may be attracted

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## **Voluntary Aggregations**

- Maine Interfaith Power & Light
  - → 1000 members, RFP released seeking supply
- Episcopal Power & Light
  - → seeking supply in CT, MA; organizing in NH, VT
- Mass. Renewable Energy Trust 9 awards to consumer aggregation groups
- see also NREL's "Customer Aggregation: An Opportunity for Green Power?"
  - www.eren.doe.gov/greenpower

#### **Policy Affects Consumer Demand**

✓ Incentives for selling RE \_\_\_\_\_ Lower price for green power State purchase mandates 
 → Increases demand Fund support for Lower customer acquisition cost for marketers aggregation Support for "opt-out" Easier for local government to aggregation aggregate Financial support for green— Cheaper marketing campaigns, marketers lower prices Increased willingness to State education efforts switch, awareness of environmental rationale Level playing field? Additional **RPS** to consumer demand? Ed Holt & Associates, Inc.

#### **Tradable Renewable Certificates**

- Divides generation into 2 products:
  - generic commodity electricity
  - → attributes (ex. resource, age, emissions, location)
- Retailers may bundle them with electricity, or sell them unbundled as a unique product
- Price represents the premium value markets place on green power
- Because not tied to power delivery, TRCs may be bought from anywhere--location may become more relevant to consumers

#### **TRC Guidelines**

- NWCC opportunities and guidelines
  - www.nationalwind.org (under publications)
  - disaggregation of attributes?
- Green-e drafting certification criteria
  - Only "new" renewable generation
  - Will not certify TRCs from mandated renewables
  - Facilities that receive financial help are eligible
  - Disclosure label states renewable certificates, not energy
- Be explicit about who owns attributes

## Who's Selling Certificates?

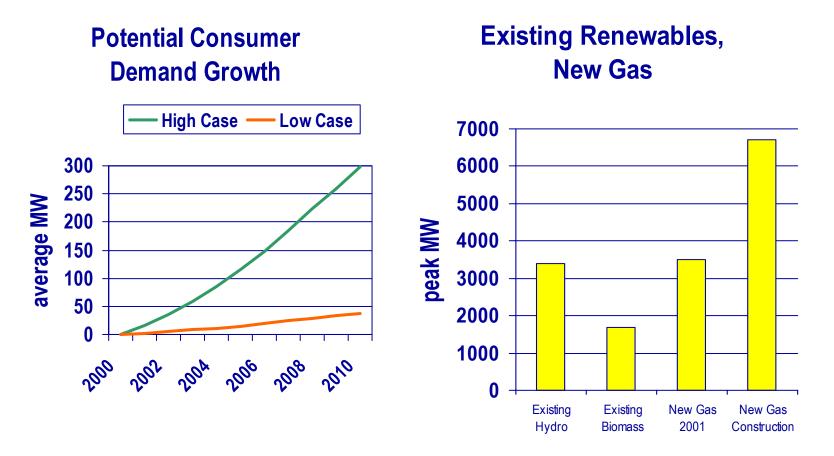
- PG&E National Energy Group
- Bonneville Environmental Foundation
- Sterling Planet
- Environmental Resources Trust
- Waverly (Iowa) Light & Power
- Navitas Energy

### **Business Demand is Growing**

- Green Power Market Development Group
- EPA Green Power Partnership
- Regional recognition programs
  - Clean Power Challenge in PNW
  - How about a joint New England program sponsored by states, funds, NGOs?
- see also "Understanding Non-Residential Demand for Green Power"
  - www.nationalwind.org

### **Demand in Perspective**

Potential demand is swamped by existing renewables and new gas



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## **Today's Weather**

- Snow over most of New England-sunny breaks in CT
- Green power market remains small
- Need for competitive markets (or utility green option in VT)
- Consumer education needed
- Large customers are recognizing opportunity

#### **Three Year Forecast**



- Low standard offers
- No real competition
- Few marketers
- Consumer inertia



- Aggregations show the way
- RPS fixed in CT and ME
- Rising default pricing reflects retail costs
- Stable markets
- NE GIS begins, supports TRCs

- Competitive suppliers enter markets
- Expanded access to green power
- Aggressive promotion
- Disclosure and certification
- Patience and tenacity